

Production of abrasion- and scratch-resistant acrylic surfaces

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Equivalents:

Abstract

Production of acrylic surfaces with high abrasion and scratch resistance comprises (a) applying a gel-coat (12) with a definite concentration of homogeneously dispersed nano-scale particles (I) to one part of a mould (11) used for the production of acrylic sheet, (b) filling the mould with liquid acrylic prepolymer, and (c) hardening to give an acrylic sheet with a coating formed from the gel-coat. Also claimed is (i) an apparatus for this process, comprising upper (10) and lower (11) glass plates with a definite space between forming the mould, a sealing cord (13) round the outside between the plates, and clamps (15, 16) around the mould to hold the plates together; and (ii) an acrylic sheet with a surface showing high abrasion and scratch resistance, obtained by this process.

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